WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS PATENT OF THE UNITED STATES IS:

- 1. An electrophotographic image forming apparatus comprising:
- at least one image forming unit comprising:

 an electrophotographic photoreceptor comprising:

an electroconductive substrate;

- a charge generation layer disposed over the electroconductive substrate; and
- a charge transport layer disposed over the charge generation layer,
 - a charger for charging the electrophotographic photoreceptor;

an irradiator for irradiating the

15 electrophotographic photoreceptor to form an electrostatic latent image thereon;

an image developer for developing the electrostatic latent image with a developer comprising a toner to form a toner image on the electrophotographic photoreceptor; and

a transferer for transferring the toner image onto a transfer sheet while applying an electrical current of not less than 65 μA to the electrophotographic photoreceptor,

wherein the charge generation layer comprises titanylphthalocyanine crystals having a $\text{CuK}\alpha$ 1.542Å X-ray diffraction spectrum comprising plural diffraction peaks, wherein a maximum diffraction peak is observed at a Bragg (2 θ) angle of 27.2°; main peaks are observed at 9.4°, 9.6° and

- 24.0°; and a minimum diffraction peak is observed at 7.3°; and no diffraction peak is observed at an angle greater than 7.3° and less than 9.4°, wherein said angles may vary by ± 0.2 ° and the minimum interval where no peak is observed between required peaks at 7.3 and 9.4 is 2.0 degrees absolute or more.
- 2. The electrophotographic image forming apparatus of Claim 1, wherein the electrical current is controlled by a constant current controller.

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3. The electrophotographic image forming apparatus of Claim 1, further comprising:

feedback means for returning a bypass current flow in the transferer to an electrical source; and

a current measurer for controlling the transfer current by measuring a difference between a current measured thereby and an output current from the electrical source.

- 4. The electrophotographic image forming apparatus of 20 Claim 1, wherein no diffraction peak is observed at 26.3°.
 - 5. The electrophotographic image forming apparatus of Claim 1, wherein the titanylphthalocyanine crystals have an average primary particle diameter of less than 0.3 μm .

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6. The electrophotographic image forming apparatus of Claim 1, wherein the charge generation layer is coated with a

dispersion liquid comprising the titanylphthalocyanine crystals, and the titanylphthalocyanine crystals have a volume-average particle diameter of not greater than 0.3 μ m, and wherein the dispersion liquid is dispersed until a standard deviation of the volume-average particle diameter becomes not greater than 0.2 μ m and the dispersion liquid is then filtered with a filter having an effective pore diameter of not greater than 3 μ m.

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7. The electrophotographic image forming apparatus of Claim 1, wherein the titanylphthalocyanine crystals are formed by a process comprising:

subjecting a titanylphthalocyanine, which is either amorphous or low-crystalline, and which has a maximum $\text{CuK}\alpha$ 1.542Å diffraction peak having a half width not less than 1°at a Bragg (2 θ) angle of from 7.0 to 7.5° \pm 0.2° and an average primary particle diameter of not greater than 0.1 μm , to crystal conversion with an organic solvent in the presence of water; and

- separating the titanylphthalocyanine from the organic solvent before the titanylphthalocyanine crystals grow to a size where the titanylphthalocyanine crystals have an average primary particle diameter of greater than 0.3 μm .
- 8. The electrophotographic image forming apparatus of Claim 1, wherein the charge transport layer comprises a polycarbonate having a triarylamine structure in the main chain

and/or the side chain.

- 9. The electrophotographic image forming apparatus of Claim 1, wherein the electrophotographic photoreceptor further comprises a protection layer disposed over the charge transport layer.
- 10. The electrophotographic image forming apparatus of Claim 9, wherein the protection layer comprises an inorganic pigment and/or a metal oxide, and the inorganic pigment and metal oxide have a resistivity of not less than $10^{10}\,\Omega$ · cm.
- 11. The electrophotographic image forming apparatus of Claim 10, wherein the metal oxide is selected from the group consisting of alumina, titania and silica.
 - 12. The electrophotographic image forming apparatus of Claim 10, wherein the metal oxide is α -alumina.
- 20 13. The electrophotographic image forming apparatus of Claim 9, wherein the protection layer further comprises a polymer charge transport material.
- 14. The electrophotographic image forming apparatus of 25 Claim 1, wherein the charge transport layer is formed with a non-halide solvent.

- 15. The electrophotographic image forming apparatus of Claim 14, wherein the non-halide solvent is selected from the group consisting of cyclic ethers and aromatic hydrocarbons.
- 16. The electrophotographic image forming apparatus of Claim 1, wherein an oxide film is formed on the electroconductive substrate by anodizing.
- 17. The electrophotographic image forming apparatus of Claim 1, comprising a plurality of the image forming units.
 - 18. The electrophotographic image forming apparatus of Claim 1, wherein the charger charges the electrophotographic photoreceptor while contacting the electrophotographic photoreceptor.

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- 19. The electrophotographic image forming apparatus of Claim 1, wherein the charger charges the electrophotographic photoreceptor while being located close thereto and a gap therebetween is not greater than 200 μm .
- 20. The electrophotographic image forming apparatus of Claim 1, wherein the charger applies a DC voltage overlapped with an AC voltage to the electrophotographic photoreceptor.
 - 21. An electrophotographic photoreceptor comprising: an electroconductive substrate;

- a charge generation layer disposed over the electroconductive substrate; and
- a charge transport layer disposed over the charge generation layer,
- wherein the charge generation layer comprises titanylphthalocyanine crystals having a CuKα 1.542Å X-ray diffraction spectrum comprising plural diffraction peaks, wherein a maximum diffraction peak is observed at a Bragg (2 θ) angle of 27.2°; main peaks are observed at 9.4°, 9.6° and 24.0°; and a minimum diffraction peak is observed at 7.3°; and no diffraction peak is observed at an angle greater than 7.3° and less than 9.4°, wherein said angles may vary by ±0.2° and the minimum interval where no peak is observed between required peaks at 7.3 and 9.4 is 2.0 degrees absolute or more.

- 22. The electrophotographic photoreceptor of Claim 21, wherein no diffraction peak is observed at 26.3°.
- 23. The electrophotographic photoreceptor of Claim 21, wherein the titanylphthalocyanine crystals have an average primary particle diameter of less than 0.3 μm .
 - 24. The electrophotographic photoreceptor of Claim 21, wherein the charge generation layer is coated with a dispersion liquid comprising the titanylphthalocyanine crystals, and the titanylphthalocyanine crystals have a volume-average particle diameter not greater than 0.3 μm , and wherein the dispersion

liquid is dispersed until a standard deviation of the volume-average particle diameter becomes not greater than 0.2 μm and the dispersion liquid is then filtered with a filter having an effective pore diameter of not greater than 3 μm .

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25. The electrophotographic photoreceptor of Claim 21, wherein the titanylphthalocyanine crystal is formed by a process comprising:

subjecting a titanylphthalocyanine, which is either amorphous or low-crystalline, and which has a maximum $\text{CuK}\alpha$ 1.542Å diffraction peak having a half width not less than 1°at a Bragg (2 θ) angle of from 7.0 to 7.5° \pm 0.2° and an average primary particle diameter not greater than 0.1 μ m, to crystal conversion with an organic solvent in the presence of water; and

separating the titanylphthalocyanine from the organic solvent before the titanylphthalocyanine crystals grow to a size where the titanylphthalocyanine crystals have an average primary particle diameter of greater than 0.3 μm .

- 26. The electrophotographic photoreceptor of Claim 21, wherein the charge transport layer comprises a polycarbonate having a triarylamine structure in the main chain and/or the side chain.
- 27. The electrophotographic photoreceptor of Claim 21, further comprising a protection layer disposed over the charge transport layer.

- 28. The electrophotographic photoreceptor of Claim 21, wherein the protection layer comprises an inorganic pigment and/or a metal oxide, and the inorganic pigment and metal oxide have a resistivity of not less than $10^{10}\,\Omega$ ·cm.
- 29. The electrophotographic photoreceptor of Claim 28, wherein the metal oxide is selected from the group consisting of alumina, titania and silica.

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- 30. The electrophotographic photoreceptor of Claim 28, wherein the metal oxide is α -alumina.
- 31. The electrophotographic photoreceptor of Claim 21,
 15 wherein the protection layer further comprises a polymer charge transport material.
 - 32. The electrophotographic photoreceptor of Claim 21, wherein the charge transport layer is formed with a non-halide solvent.
 - 33. The electrophotographic photoreceptor of Claim 32, wherein the non-halide solvent is selected from the group consisting of cyclic ethers and aromatic hydrocarbons.

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34. The electrophotographic photoreceptor of Claim 21, wherein an oxide film is formed on the electroconductive

substrate by anodizing.

35. The electrophotographic image forming apparatus of Claim 1, further comprising a detachable cartridge comprising a photoreceptor and a member selected from the group consisting of chargers, irradiators, image developers, cleaners, and combinations thereof.